

IN THE CLAIMS:

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1. A system for nonlinear viewing of television segments comprising:

a television broadcast transmitter including means for generating and transmitting main television signals and separate ancillary television signals said related to said main signals;

a television receiver system for receiving said main signals and for storing in a cache memory the ancillary signals, and

selective means at the television receiver for providing either the main signals or the ancillary signals to the television display.

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2. The system of Claim 1 including means for generating an icon on a television receiver display indicating the presence of the stored ancillary signals and means at the television

receiver for accessing said stored ancillary signal in said cache memory using said icon.

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3. The system of Claim 1 wherein said ancillary signal is broadcasted in the vertical blanking interval of the main signal and said receiver receives the ancillary signal during the vertical blanking interval.

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4. The system of claim 1 wherein said television signals are transmitted over a digital television channel subdivided into several subchannels of multiplexed signals and wherein one of said subchannels contains said main television signals and the other subchannels provide the ancillary signals.

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5. The system of Claim 4 wherein said main subchannel carries the control data for commands for updating by removing old subchannel segments and storing new ones.

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6. The system of Claim 1 wherein said separate ancillary signal contains short television signal segments related to the main signals and said cache stores said segments and said main signals and contains control data providing means for removing and storing said segments and said receiver system includes means for responsive to said control data for storing and removing said short segments from said cache memory.

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7. The system of Claim 1 wherein said ancillary signals include ancillary data and command and control signals.

5 8. The system of Claim 7 wherein said main signals are data compressed signals and the ancillary signals are in the sideband channels between said main signals.

9. The system of Claim 1 wherein said main signals are data compressed segments and the ancillary signals are in the sidebands between said main signals.

10 10. The system of Claim 1 wherein said main signals and ancillary signals are different parts of a high definition television channel.

11. The system of Claim 10 including means for switching between high definition television channel and one standard television subchannel and an ancillary subchannel.